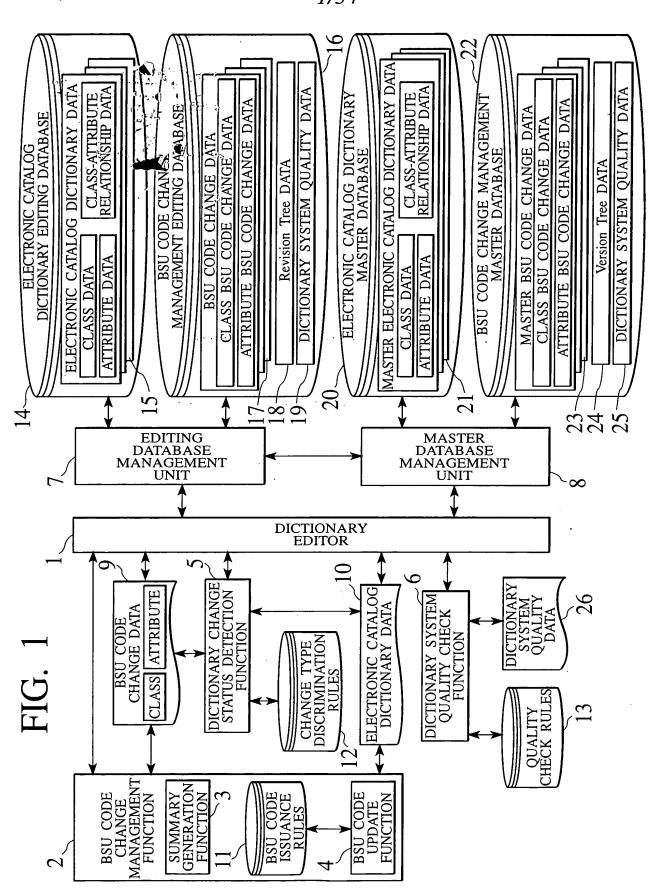


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FIG. 2

CLASS DATA

CID	Preferred_ Name	BSU	PARENT CLASS CID	 	DATA QUALITY LEVEL
A0	CLASS A0	A001			Α
B0	CLASS B0	A002	A001		Α
B1	CLASS B1	A003	A001		Α
C0	CLASS C0	A004	A002		В
C1	CLASS C1	A005	A002		В
C2	CLASS C2	A006	A003		C
C3	CLASS C3	A007	A003		D

FIG. 3

ATTRIBUTE DATA

PID	Preferred_ Name	BSU	 	 DATA QUALITY LEVEL
V0	ATTRIBUTE V0	P001		Ά
V1	ATTRIBUTE V1	P002		A
V2	ATTRIBUTE V2	P003		A
V3	ATTRIBUTE V3	P004		В
V4	ATTRIBUTE V4	P005		В
V5	ATTRIBUTE V5	P006		В
V6	ATTRIBUTE V6	P007		В

FIG. 4

CLASS-ATTRIBUTE RELATIONSHIP DATA

PID	CID scope	Visible	Applicable
V0	A0	A0, B0, B1, C0, C1, C2, C3	A0, B0, B1, C0, C1, C2, C3
V1	В0	B0, C0, C1	B0, C0, C1
V2	C0	C0	NULL
V3	C1	C1	C1
V4	B1	B1, C2, C3	C3
V5	C2	C2	NULL
V6	C3	C3	NULL

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FIG. 5

CLASS BSU CODE CHANGE DATA

Status	CID	BSU	Refer to	Same as
NEW	C4	NULL	NULL	C3
OOD	C3	A007	C4	NULL
RUP	C2	A006	NULL	NULL

※ VUP : Version UP

RUP: Revision UP

NEW: New BSU

OOD: Out of Dictionary

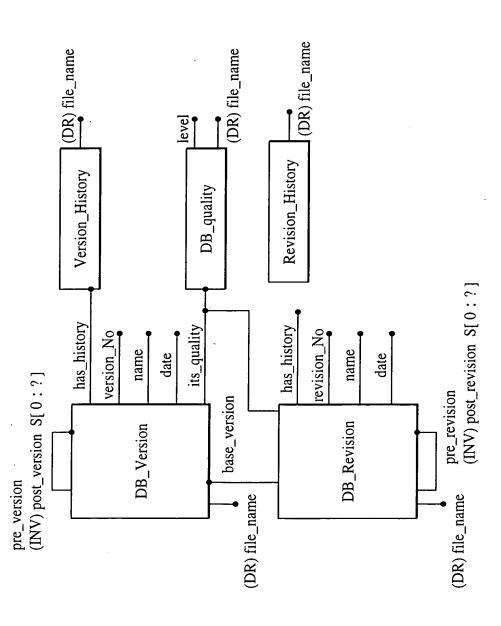
FIG. 6

ATTRIBUTE BSU CODE CHANGE DATA

Status	PID	BSU	Refer to	Same as
NEW	V7	NULL	NULL	V4
NEW	V8	NULL	NULL	V6
OOD	V6	P007	V8	NULL
RUP	V2	P003	NULL	NULL

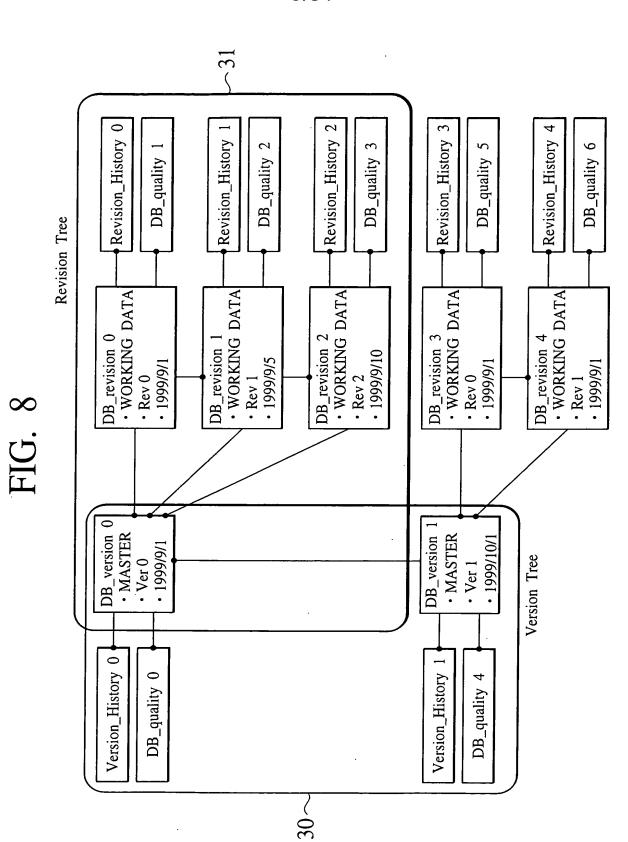
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FIG. 9

DICTIONARY SYSTEM QUALITY DATA

ID	CONTENT
C1	THERE IS ONE SUB-CLASS
V7	CONTENT IS SAME AS V3
V8	CONTENT IS SAME AS V4
V9 .	CONTENT IS SAME AS V5
CLASS SYSTEM	В

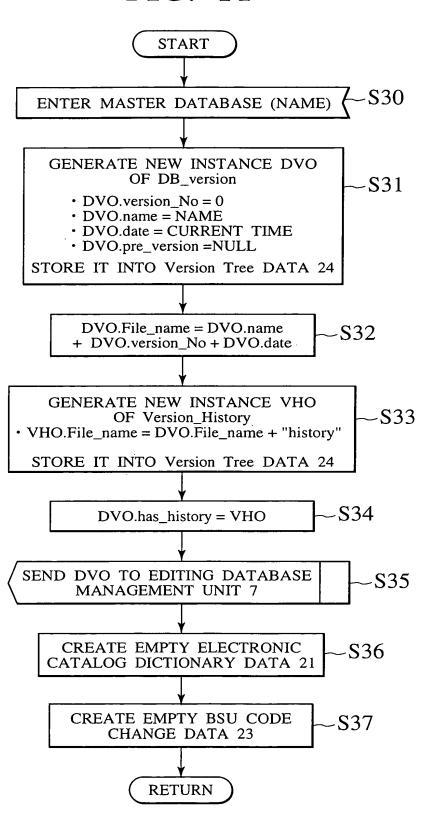
DOCKET #: 200023US2RD INV: Satoshi ITO SHEET <u>7</u> OF <u>34</u> 7/34 SPECIFY DICTIONARY FROM ELECTRONIC CATALOG DICTIONARY EDITING DATABASE 14 2 MASTER DATABASE DATA 19 ELECTRONIC CATALOG DICTIONARY DATA 10 S QUALITY MASTER DATABASE 1 S 23 LS10 9S- $\frac{\infty}{2}$ -S7 DICTIONARY 6S~ **S**21 YES 2 DOWNLOAD IT INTO ÉLECTRONIC CATALOG DICTIONARY EDITING DATABASE 14 CHANGE DATA SPECIFY DICTIONARY FROM ELECTRONIC CATALOG DICTIONARY MASTER DATABASE DOWNLOAD CORRESPONDING BSU CODE CHANGE MANAGEMENT DATA INTO BSU CODE CHANGE MANAGEMENT EDITING DATABASE 16 OF DICTIONARY ISSUE BSU CODE
Revision UP PROCESSING READ CORRESPONDING BSU CODE CHANGE DATA 17 Version UP PROCESSING READ ELECTRÓNIC CATALOG DICTIONARY DATA 15 OK? BSU CODE INTO CONFIRM QUALITY 9N S₂ STORE 2 CREATION ACTIVATE DICTIONARY STARI OF CLASS & CHANGE DATA YES **EDITING DATABASE** NEW OF DICTIONARY -S4 **S3** EDIT ELECTRONIC CATALOG DICTIONARY DATA CHANGE CONTENT CHECK Rev UP CHANGE Ver UP CHANGE New BSU CHANGE / CREATE DATABASE NEWLY CREATE EDITING DATABASE SHOULD MASTER DATABASE BE STORED? SHOULD EDITING DATABASE BE STORED? FINISHED? YES GENERATE SUMMARY ATTRIBUTE BSU CODE END QUALITY NEWLY MASTER I NEWLY STORE IT INTO CHECK **S14 S15** $S18^{\prime}$ 9 2 S13 0 N $arphi_{ec{\gamma}}$

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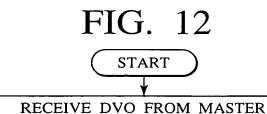
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FIG. 11



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-S40

-S42

S44

S47

GENERATE NEW INSTANCE DRO OF DB_revision

DATABASE MANAGEMENT UNIT 8

- DRO.revision_No = 0
- DRO.name = NAME
- DRO.date = CURRENT TIME
- DRO.pre_version = NULL
- DRO.base version = DVO

STORE IT INTO Revision Tree DATA 18

DRO.File_name = DRO.name + DRO.version_No + DRO.date

GENERATE NEW INSTANCE RHO OF Revision_History

• RHO.File_name = RHO.File_name + "history"

STORE IT INTO Revision Tree DATA 18

DRO.has_history = RHO ____S45

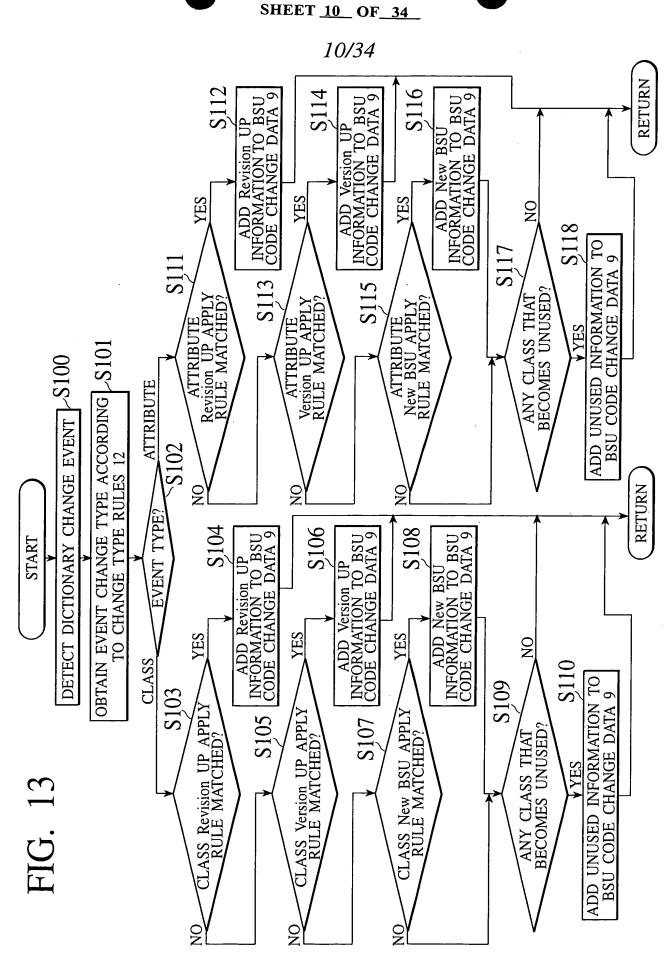
CREATE EMPTY ELECTRONIC CATALOG DICTIONARY DATA 15 S46

CREATE EMPTY BSU CODE CHANGE DATA 17

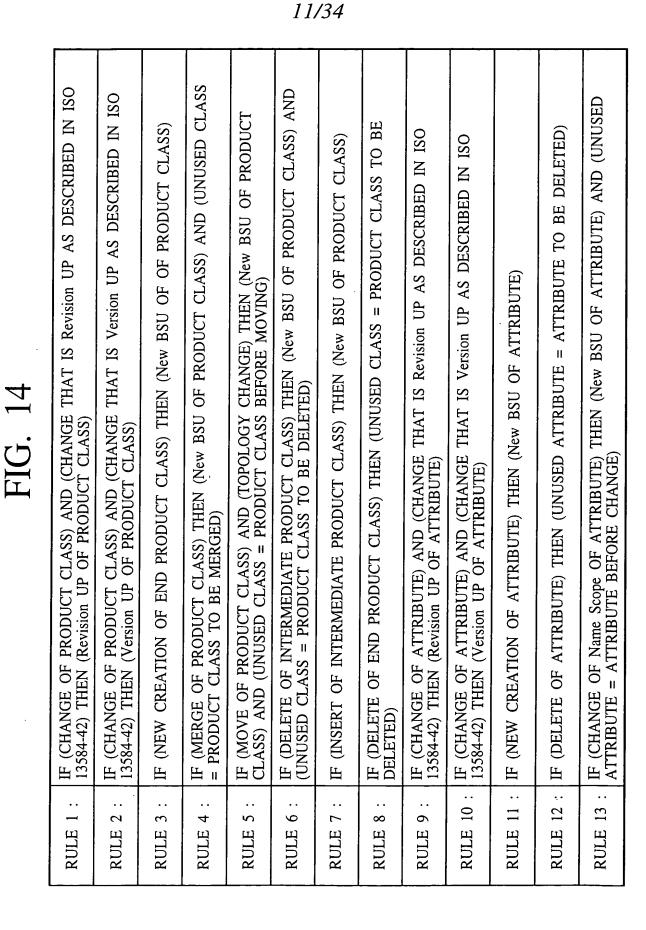
CREATE EMPTY ELECTRONIC CATALOG DICTIONARY DATA 10 S48

CREATE EMPTY BSU CODE CHANGE DATA 9

RETURN

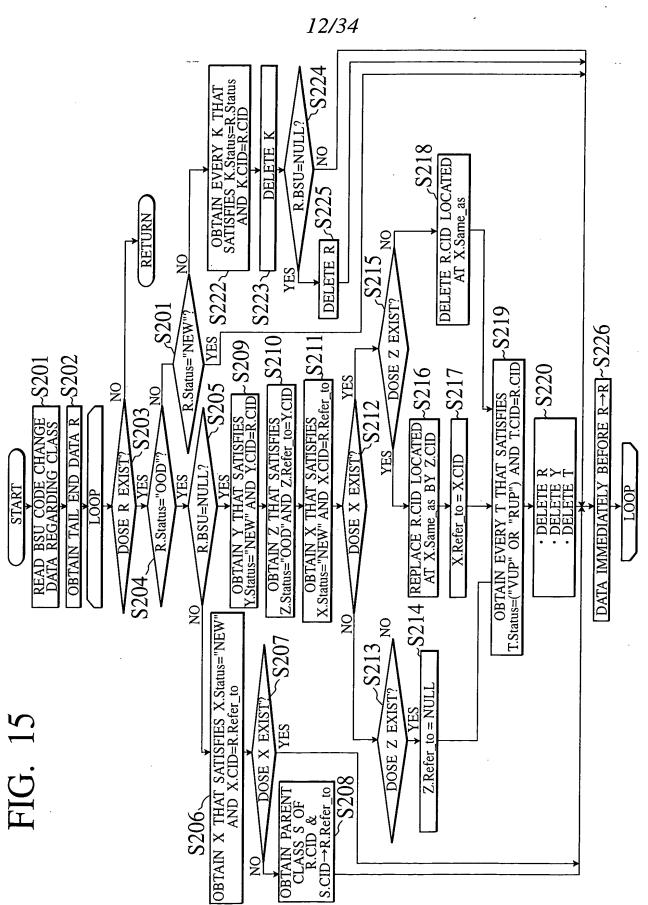


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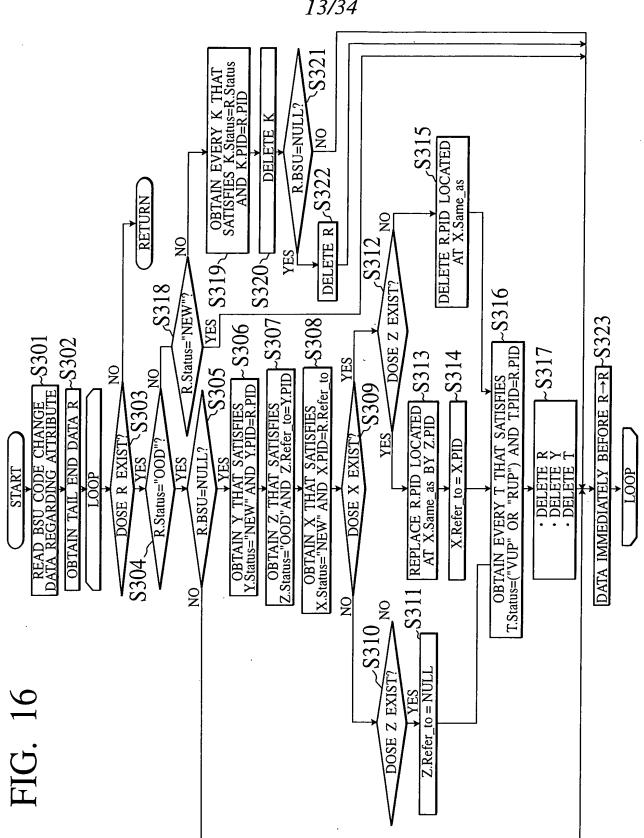


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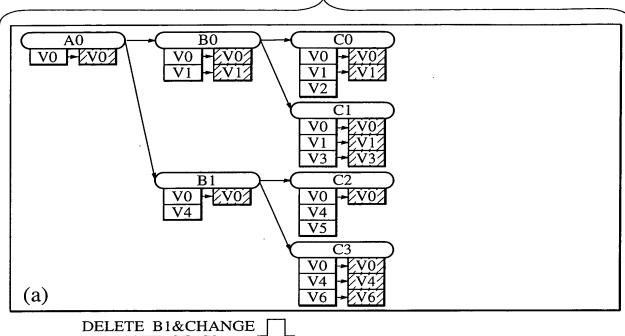




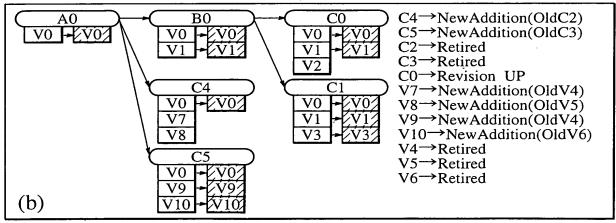
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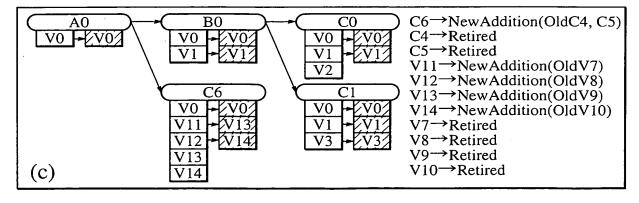
FIG. 17







MERGE C4&C5



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FIG. 18

CI	A C C	DCII	CODE	CHANCE	DATA
	ASS.	DOU	CODE	CHANGE	DAIA

Same as
Same as
C2
C3
NULL
NULL
NULL
(C4, C5)
NULL
NULL

(b) Status CID BSU | Refer to Same as **NEW** NULL NULL C4 C2 C5 NULL NULL **NEW** C3 C2 OOD A007 NULL C4 C3 A008 C6// OOD **NULL** RUP C0 A006 NULL **NULL** NULL NULL **NEW** C6 (C4, C3)OOD C4 NULL C6 NULL C5 OOD NULL C6 **NULL**

ŢŢ

(c) Status CID BSU | Refer to Same as **NEW** C4 NULL NULL C2 OOD C2 C4 A007 **NULL** C6/// OOD C3 NULL A008 RUP NULL C0 A006 NULL NEW **C**6 (C4, C3)2 NULL NULL OOD C4 NULL C6 **NULL**

ŢŢ

BSU | Refer to (d) Status CID Same as **NEW** C4 NULL NULL C2 C2 OOD A007 1C67 NULL C6/ C3 OOD A008 **NULL RUP** C0 A006 | NULL **NULL** (Ć2, Ć3)/ **NEW** C6 NULL NULL OOD C4 NULL C6 NULL

CID BSU (e) Status Refer to Same as OOD C2 A007 C6// NULL C6/// OOD C3 A008 NULL **RUP** C0 A006 **NULL** NULL NEW C6 (C2, C3)/NULL NULL

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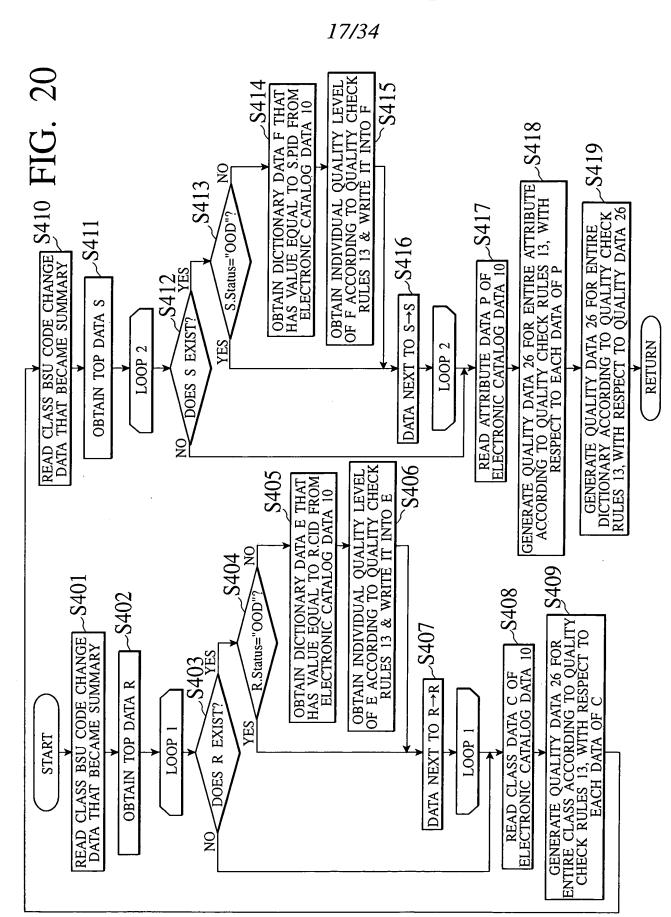
FIG. 19

ATTRIBUTE BSU CODE CHANGE DATA

- Status PID BSU Refer to Same as NEW V7 NULL NULL V4 NEW V8 NULL NULL V5 (a) NEW V9 NULL NULL V4 NEWVIONULL NULL V6 OOD V4 P004 (V7, V9) NULL OOD V5 P005 V8 NULL OOD V6 P006 V10 NULL NEW VII NULL NULL V4 NEW V12 NULL NULL NEW V13 NULL NULL NEW V14 NULL NULL V6 OOD V7 NULL V11 NULL OOD V8 NULL V12 NULL OOD V9 NULL V13 NULL OOD V10 NULL V14 NULL
- (b) Status PID BSU Refer to Same as NEW V7 NULL NULL V4
 NEW V8 NULL NULL V5
 NEW V9 NULL NULL V4
 NEW V10NULL NULL V4
 NEW V10NULL NULL V6
 OOD V4 P004 (V7, V9) NULL
 OOD V5 P005 V8 NULL
 OOD V6 P006 V14// NULL
 NEW V11NULL NULL V7
 NEW V12NULL NULL V8
 NEW V13NULL NULL V9
 NEW V14NULL NULL V9
 NEW V14NULL NULL V6///
 OOD V7 NULL V11 NULL
 OOD V8 NULL V12 NULL
 OOD V8 NULL V12 NULL
 OOD V9 NULL V13 NULL
 OOD V9 NULL V14 NULL
- Status PID BSU Refer to Same as (c) NEW V7 NULL NULL V4
 NEW V8 NULL NULL V5
 NEW V9 NULL NULL V4 OOD V4 P004 (V7, V9) NULL OOD V5 P005 V8 NULL OOD V6 P006 V14/ NULL NEWVIINULLNULL NEWV12 NULL NULL V8 NEWV13 NULLINULL V9 NEWV14 NULL NULL V6/ OOD V7 NULL V11 NULL OOD V8 NULL V12 NULL OOD V9 NULL V13 NULL
- (d) Status PID BSU Refer to Same as NEW V7 NULL NULL V4
 NEW V8 NULL NULL V5
 NEW V9 NULL NULL V4
 OOD V4 P004 (V7, V13) NULL
 OOD V5 P005 V8 NULL
 OOD V6 P006 V14// NULL
 NEW V11 NULL NULL V7
 NEW V12 NULL NULL V8
 NEW V13 NULL NULL V4//
 NEW V14 NULL NULL V6///
 OOD V7 NULL V11 NULL
 OOD V8 NULL V12 NULL
 OOD V9 NULL V13 NULL

- (e) Status PID BSU Refer to Same as NEW V7 NULL NULL V4
 NEW V8 NULL NULL V5
 OOD V4 P004 (V7, V13) NULL
 OOD V5 P005 V8 NULL
 OOD V6 P006 V14/ NULL
 NEW V11 NULL NULL V7
 NEW V12 NULL NULL V8
 NEW V13 NULL NULL V4//
 NEW V14 NULL NULL V6//
 OOD V7 NULL V11 NULL
 OOD V8 NULL V12 NULL
- (f) Status PID BSU Refer to Same as NEW V7 NULL NULL V4
 NEW V8 NULL NULL V5
 OOD V4 P004 (V7, V13) NULL
 OOD V5 P005 V12// NULL
 OOD V6 P006 V14// NULL
 NEW V11NULL NULL V7
 NEW V12NULL NULL V5//
 NEW V13NULL NULL V4//
 NEW V14NULL NULL V6//
 OOD V7 NULL V11 NULL
 OOD V8 NULL V12 NULL
- (g) Status PID BSU Refer to Same as NEW V7 NULL NULL V4
 OOD V4 P004 (V7, V13 NULL OOD V5 P005 V12/ NULL OOD V6 P006 V14/ NULL NEW V11 NULL NULL V7
 NEW V12 NULL NULL V5/// NEW V13 NULL NULL V4/// NEW V14 NULL NULL V6/// OOD V7 NULL V11 NULL V6///
- (h) Status PID BSU Refer to Same as NEW V7 NULL NULL V4
 OOD V4 P004 (V7, V13 NULL OOD V5 P005 V12/ NULL OOD V6 P006 V14/ NULL NEW V11 NULL NULL V5// NEW V13 NULL NULL V4// NEW V13 NULL NULL V4// NEW V14 NULL NULL V6// OOD V7 NULL V11 NULL
- (i) Status PID BSU Refer to Same as OOD V4 P004 (VII, VI3) NULL OOD V5 P005 V12 NULL OOD V6 P006 V14 NULL NEW VI NULL NULL V4 NEW V13 NULL NULL V4 NEW V13 NULL NULL V4 NEW V14 NULL NULL V4 NEW V14 NULL NULL V6

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FIG. 21A

RULE 1:	IF (E=PRODUCT CLASS) AND (INDIVIDUAL CHECK) THEN(E.QUALITY LEVEL=EVALUATION FUNCTION F1 (E))
RULE 2:	IF (E=ATTRIBUTE CLASS) AND (INDIVIDUAL CHECK) THEN(E.QUALITY LEVEL=EVALUATION FUNCTION F2(E))
RULE 3:	IF (E=PRODUCT CLASS) AND (SYSTEM CHECK) THEN(SYSTEM QUALITY LEVEL L1=EVALUATION FUNCTION F3 (E))
RULE 4:	IF (E=ATTRIBUTE CLASS) AND (SYSTEM CHECK) THEN(SYSTEM QUALITY LEVEL L1=EVALUATION FUNCTION F4(E))
RULE 5:	IF (E=DICTIONARY) THEN(SYSTEM QUALITY LEVEL L1=EVALUATION FUNCTION F5(E))

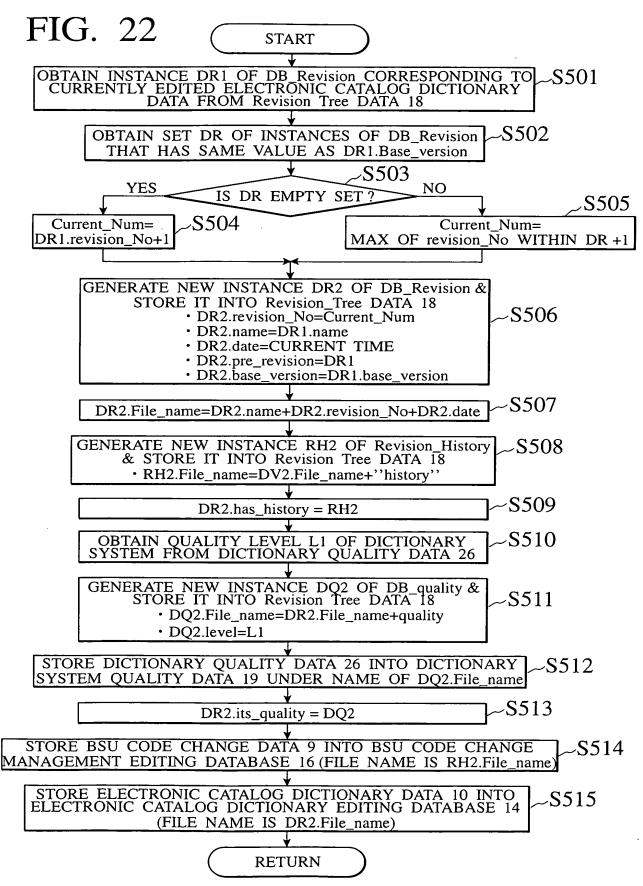
EVALUATION FUNCTION 1:	IF((Y=# OF ATTRIBUTES DESCRIBED IN X/# OF ATTRIBUTES OF X)>0.9)THEN QUALITY LEVEL="A"
	ELSE IF (0.9≧Y>0.6) THEN QUALITY LEVEL="B"
	ELSE IF (0.6≧Y>0.4) THEN QUALITY LEVEL="C"
	ELSE IF (0.4≧Y) THEN QUALITY LEVEL="D"
EVALUATION FUNCTION 2:	IF((Y=# OF ATTRIBUTES DESCRIBED IN X/# OF ATTRIBUTES OF X)>0.95)THEN QUALITY LEVEL="A"
	ELSE IF (0.95≧Y>0.8) THEN QUALITY LEVEL="B"
	ELSE IF (0.8≥Y>0.6) THEN QUALITY LEVEL="C"
	ELSE IF (0.6≧Y) THEN QUALITY LEVEL="D"
EVALUATION	IF (X!= END CLASS) AND (# OF SUB-CLASSES OF X=1)
FUNCTION 3:	THEN L1=L1+1, Return ("X.CID", "THERE IS ONE SUB_CLASS")
EVALUATION FUNCTION 4:	IF (X.Same-as!=NULL) AND (NOT (Z.CID=X.Same_as) AND (Z.Status="OOD"))
	THEN L1=L1+1, Return ("X.CID", "SAME AS X.Same_as"))
EVALUATION	IF (L1<5) THEN QUALITY LEVEL = "A"
FUNCTION 5:	ELSE IF (10≥L1>5) THEN QUALITY LEVEL="B"
	ELSE IF (50≧L1>10) THEN QUALITY LEVEL="C"
	ELSE IF (50>L1) THEN QUALITY LEVEL="D"

FIG. 21B

RULE 1:	IF ISSUING OF CLASS BSU THEN BSU CODE ="A"+MAX OF CURRENT CLASS BSU ISSUED No.+1
RULE 2 :	IF ISSUING OF ATTRIBUTE BSU THEN BSU CODE = "P"+MAX OF CURRENT ATTRIBUTE BSU ISSUED No.+1

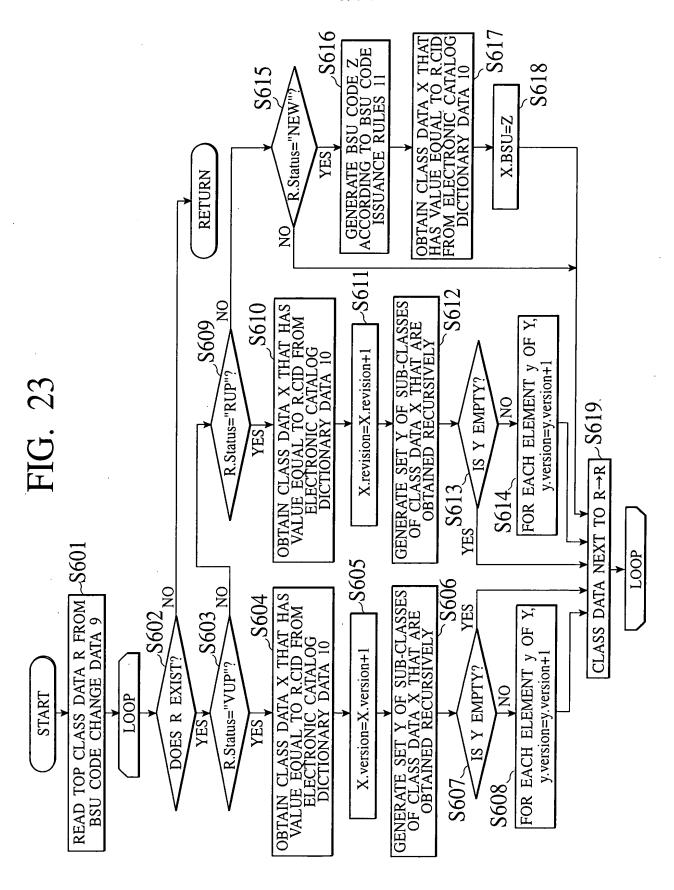
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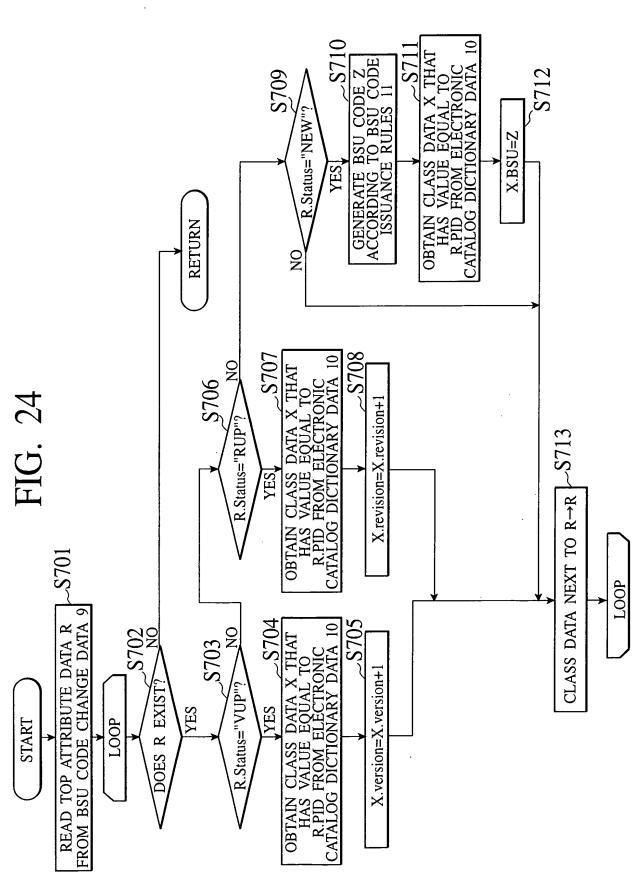
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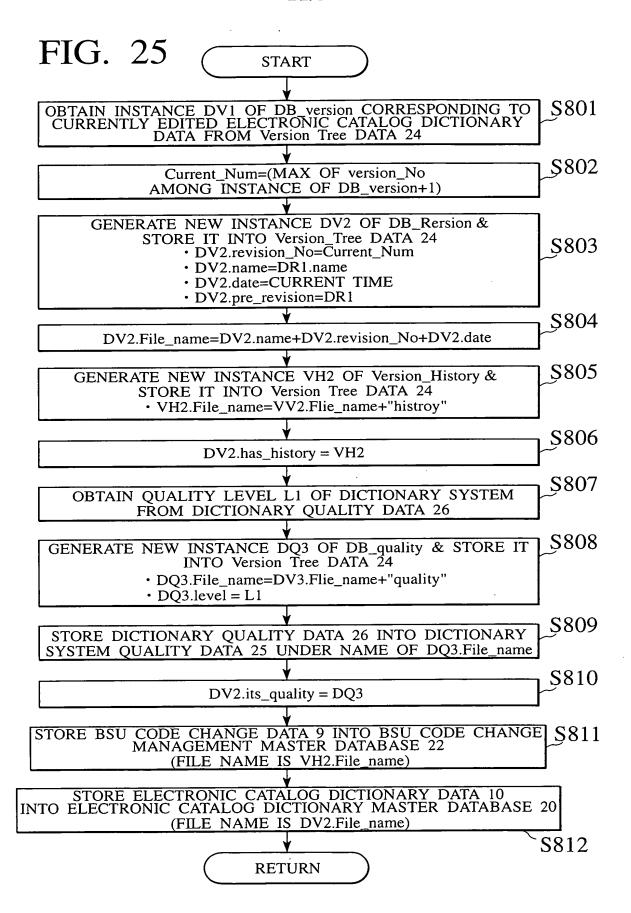
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FIG. 26

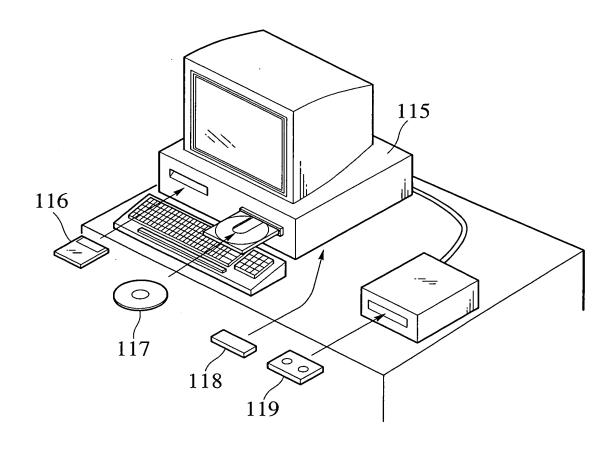
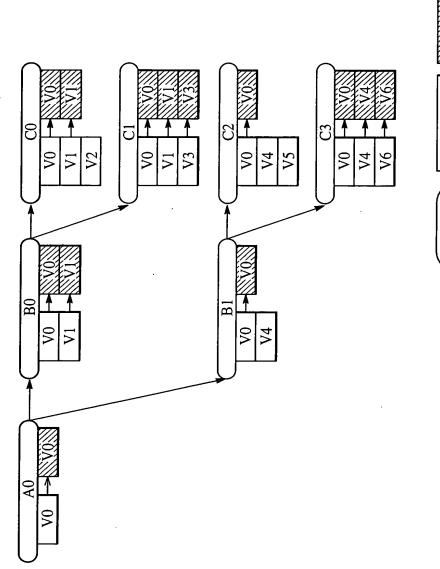


FIG. 27 PRIOR ART

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ATTRIBUTE ITEM(Visible)

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R(%11

R(×11)

R(<u>%</u>11)

1

Property_DET.domain.simple_type.value_format

dates.date of original definition

Date of Original Definition

Format

Date of current revision Date of current version

Version number

dates.date_of_current_revision dates.date_of_current_version

Property_BSU.version

int/real_measure_type.unit.structured_representation

Property_DET.remark Property_DET.note

Property_DET.depends_on

Condition Formula

Remark

Jnit

Note

Property_DET.formula

8 >

X/R(※12)

R(%11)

R(X11) R(※11) R(×11)

R/V(※10)

R(%11 R(※11)

identified document.document identifier

Source Document of definition

Definition

Property DET. definition

FIG. 28A

Regarding Rev/Ver of Property

•				
Concept model	i Data model	Add	Add Change	Delete
Code	Property_BSU.code		×	×
Definition Class	Property_BSU.name_scope	×	×	×
Data_type	Property_DET.domain	1	V(%8)	×
Preferred Name	item_name.name	ı	R	×
Short Name	item_name.Short_name	!	2	×
Preferred Letter Symbol	Property_DET.preferred_symbol	R	R	×
Synonymous Letter Symbol	Synonymous Letter Symbol Property_DET.synonymous_symbols	R	R	2
Synonymous Name	item_name.Synonymous_names	R	R	2
Property Type Classification	Property_DET.DET_classification		R(※9)	×

1	
Property_DET.revision	wed Possible are:
Property_L	voe itself not allo
Revision number	X8 Change of Data type itself not allowed. Possible

1. Addition of option of enumeration type data

2. Change of Version of class constituting attribute range(ex:is_part_of relationship)

3. Change of Version of Data_type BSU

X9 Only in case of Rev change of ISO31 or ISO13584.

*10 Change of definition that affects Property is not allowed. But processing for evaluating value of this Property may be Changed. Ver change in such case, or Rev change otherwise.

X11 Change of definition that affects Property is not allowed.

*12 Change of Condition_DET is not allowed. Version change of Condition_DET will propagate to Depend_P_DET.



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FIG. 28B

Regarding Rev/Ver of Class

Concept model	i Data model	Add	Change	Delete
Code	Class_BSU.code	1	×	×
Super Class	Class.its_superclass	V(※15)	V(※12)	V(%12)
Preferred Name	item_name.name	l	R	×
Short Name	item_name.Short_name	Λ	V(%16)	X
Visible Type	Class_BSU.added_visible_data_type	Λ	V(※16)	X
Applicable Type	Class.defined_types	Λ	V(※16)	X
Sub-class selection Property	class.sub_class_properties	R	R	씸
Synonymous Name	item_name.Synonymous_names	Λ	V(%16)	×
Visible Property	Class_BSU.added_visible_property	Λ	V(%16)	×
Applicable Property	Described_by	Λ	V(※16)	×
Class Value assignment	Class.class_constant_values	1	R/V(※17)	×
Definition	Property_DET.definition	R	R	R
Source Document of definition	identified_document.document_identifier	R	R	R
Note	Property_DET.note	R	R	R
Remark	Property_DET.remark	1	R	R
Simplified Drawing	Class.simplified_drawing	1	X	X
Date of Original Definition	dates.date_of_original_definition	_	Λ	X
Date of current version	dates.date_of_current_version	_	R/V	X
Date of current revision	dates.date_of_current_revision	-	Λ	X
Version number	Property_BSU.version	_	R	X
Revision number	Property_BSU.revision	1	R	X

change of Super Class. This occurs when (1) new Version is created by Sub-Class, or (2) intermediate class is inserted. X13 Value can only be added.
X14 Change of arbitrary element of Dependent_P_DET Set.
X15 Property / Data_type_ of inherited Visible/Applicable Should not be deleted by Subset.

X16 Change is only addition of new Item or change of Version of Item to be referred

X17 Change of definition that affects Property is not allowed.

Propagation of change of Class V/R

• Version change of parent class→Version charge of all children classes (grand children classes)

· Version change of Table or contents that refer to class-Version change of that class

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FIG. 29 PRIOR ART

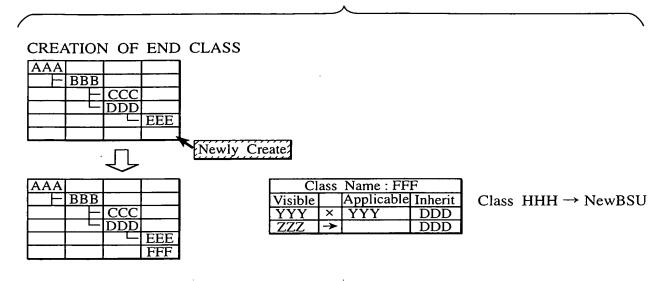


FIG. 30 PRIOR ART

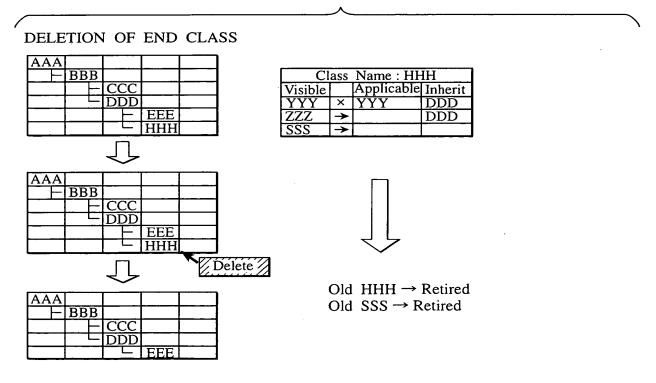


FIG. 31, PRIOR ART

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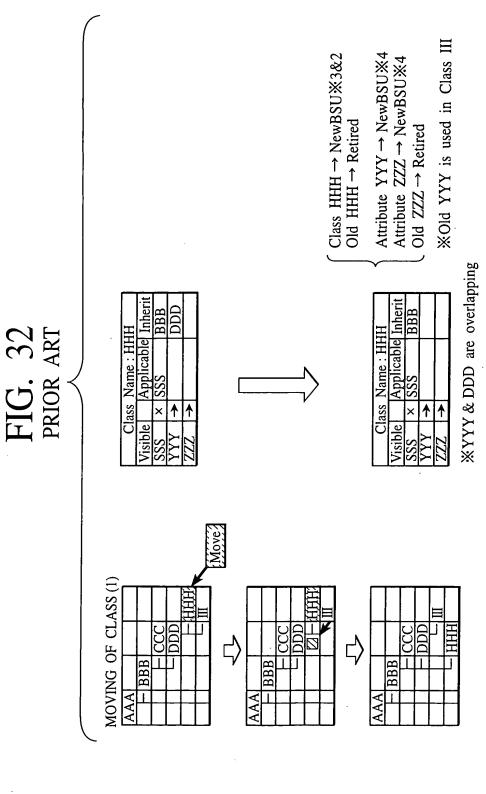
Attribute XXX → NewBSU%4 Attribute XXX → NewBSU%4 Attribute ZZZ → NewBSU¾4 Attribute SSS → NewBSU%4 Attribute SSS → NewBSU%4 Class FFF → NewBSU × 3&2 Class FFF → NewBSU%3&2 Class KKK → NewBSU Class KKK → NewBSU Class HHH → Retired Class EEE → Retired Old XXX → Retired Old XXX → Retired Old FFF → Retired Old ZZZ → Retired Old ZZZ → Retired Old SSS → Retired Old SSS → Retired ※Attribute SSS of HHH is inherited to lower level
 ※Attribute SSS of EEE is vanished as there is no one to inherit
 ※Among attributes common to classes to be merged:
 (Old 5
 1: an attribute is Applicable in new class if it is Applicable in all classes 2: an attribute is Visible in new class if it is Visible in at least one class Applicable Inherit DDD Applicable Inherit DDD HHH KKK Applicable Inherit Applicable Inherit KKK CLASS NAME: HHH CLASS NAME: FFF CLASS NAME: FFF CLASS NAME: FFF ↟ ↑ 1 ∱ ↟ ↟ ↟ ↟ Visible YYY Visible YYY Visible Visible XX | → : Vanish Applicable Inherit Applicable Inherit DDD Applicable Inherit AND TYPE MERGE OR TYPE MERGE Class Name: EEE Class Name: KKK Class Name: KKK Class Name: HHH Class Name: EEE Attribute Name: ZZZ ↑ Visible Visible Visible /Merge/ -IKKK HEFF 班 999 MERGING OF CLASSES DOD cccBBB BBB AAA

*Among attributes not common to classes to be merged:

1: an attribute is Visible in new class

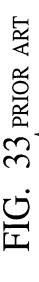
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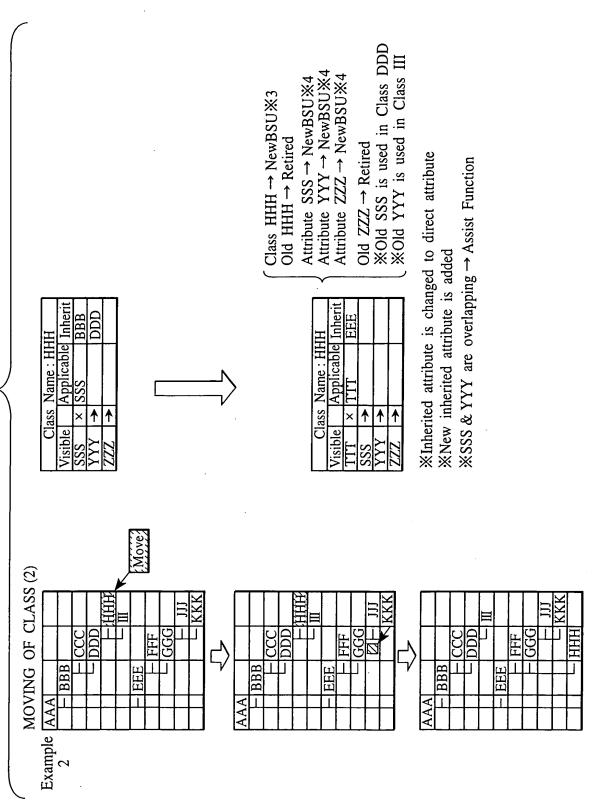


FIG. 34 PRIOR ART

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%Old SSS is used in Class BBB Class DDD → New BSU × 3&2 Attribute ZZZ → New BSU%4 Attribute SSS → New BSU%4 Old DDD → Retired Old ZZZ → Retired

Attribute XXX → New BSU%4 Class HHH → New BSU 72 Old HHH → Retired

Old $XXX \rightarrow Retired$

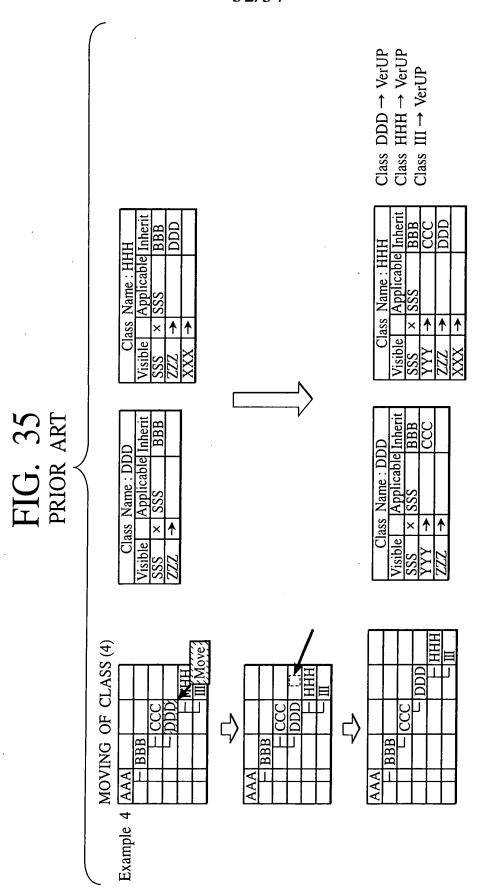
Similarly for Class III

*Inherited attribute is changed to direct attribute

Applicable Inherit Applicable Inheri BBB ↟ Visible Visible Applicable Inherit Applicable Inherit Class Name: DDD MOVING OF CLASS (3) BBB Example AAA

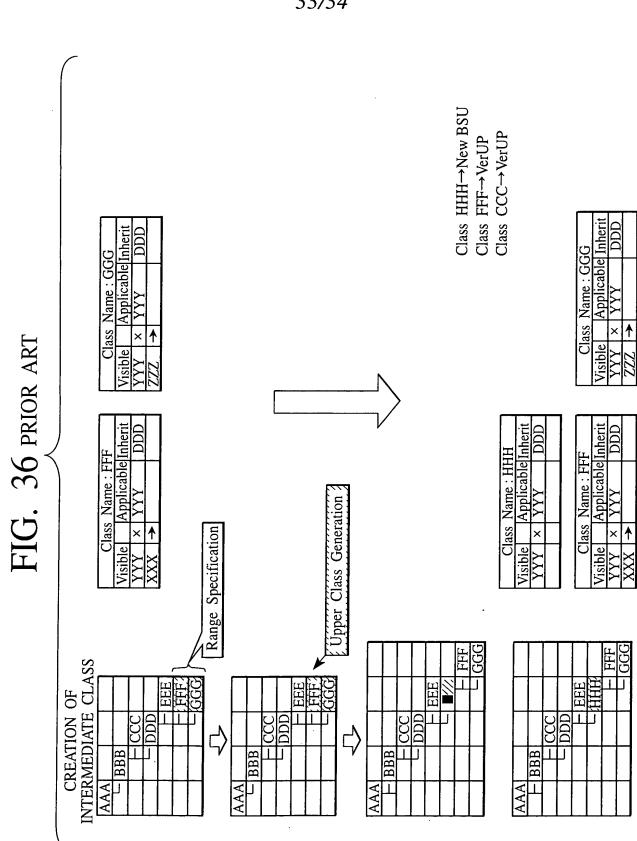
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